preprogrammed

UNIVERSAL

Remote control



URC-4160

INSTRUCTION MANUAL

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About your TOTAL CONTROL

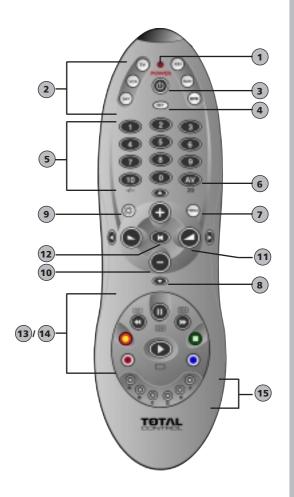
By choosing the TOTAL CONTROL Universal Remote Control you have opted for easy use. Made of the strictest quality, it will provide long-term satisfaction. Please read these enclosed instructions carefully before putting your TOTAL CONTROL to use.

Your TOTAL CONTROL manual is divided into two parts: Set Up Instructions and Device Codes. You will need your manual to set up your new TOTAL CONTROL so please be sure to keep it.

Your TOTAL CONTROL is designed to let you use one remote to operate your Video and Audio equipment; any device designed to be operated by an infrared signal. You can choose any combination of six devices you would like to operate.

The key benefit of this product is that it's equipped with the "learning feature", which means that you can copy almost any function from your original (working) remote control onto your new TOTAL CONTROL.

Your TOTAL CONTROL needs 4 new AAA/LR3 batteries.



Installing the Batteries

Your TOTAL CONTROL needs four new AAA/LR3 alkaline batteries.

- Remove the battery cover from the back of your TOTAL CONTROL.
- 2 Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
- 3 Press the battery cover back into place.

Features and Functions

Picture of the TOTAL CONTROL on page 3.

1 LED

The LED (Light Emitting Diode) flashes red to show the remote is working.

Device keys

The TV, VCR, SAT, CD, AUD and DVD keys select the device to be controlled. For example pressing the TV key allows the remote to control the functions of you Television, after pressing VCR you can operate you Video Recorder, the SAT key operates your Satellite Receiver or Cable Converter etc.

Power key

The Power key controls the same function as on your original remote.

SET key

The SET key is used to set up your TOTAL CONTROL and to access special functions.

Number keys

The number keys (0-9, 10, 20 (AV)) provide functions just like your original remote. If your original remote uses one/two digit input switching (-/-- symbol), this function can be obtained by pressing the -/-- key. If your original remote has a 20 key, this function can be found under the AV key.

6 AV key

The AV key operates the same function as it did on your original remote control. Also, if your original remote required that you press an "EXIT" key during Menu operation, the AV key can be used for this function. In VCR mode it obtains the TV/VCR function.

7 Menu Key

The Menu key controls the same function as it did on your original remote. If available on your original remote control, this key will also allow you to access the Surround Sound mode of your device.

8 Directional Keys

If available on your original remote, these keys will allow you to navigate through the menu and the Surround Sound mode of your device.

0158 Onkyo Panasonic 0252 Philips 0052 0252 Pioneer 0050 0122 Revox 0052 Sansui 0052 Sony 0266 Technics 0252 Thorens 0052 Universum 0052 Victor

0296

Laser Disc

Denon 0082 Grundig 0082 Mitsubishi 0082 NAD 0082 Pioneer 0082 Telefunken 0082

Digital Audio Tape

0562

Grundig 0181 Harman/ Kardon 0181 Marantz 0181 Philips 0181 Technics 0181

DVD 3DLAB

0513 Denon Grundig 0562 0596 Hitachi JVC 0581 0557 0513 Kenwood Magnavox 0526 Marantz Micromedia 0526 Micromega 0562 Mitsubishi 0544 0526 Onkyo Optimus 0548 Panasonic 0513 Philips 0562 0526 0548 0594 Pioneer Proscan 0545 **RCA** 0545 REC 0513 Samsung 0596 Sony 0556 Technics 0513 0574 Thomson Toshiba 0526 Yamaha 0513 Zenith 0526

Q Light Key

The Light key allows you to illuminate the entire TOTAL CONTROL keypad. See page 7 for more details.

Programme (+/-) keys

The Programme (+/-) keys operate just as those on your original remote.

Volume (+/-) keys

The Volume (+/-) keys operate just as those on your original remote.

Mute key

The Mute key operates the same function as it did on your original remote. Also, if your original remote control required that you press an "OK" or "ENTER" key during Menu operation, the Mute key can be used for this function.

Video Recorder Keys

After pressing the VCR key, the Video Recorder keys operate the functions of your Video Recorder. To prevent accidental recording, the Record key must be pressed **twice** to start recording.

Teletext Keys

After pressing the TV key, these keys are used to operate the main Teletext functions. Of course, your Television must have Teletext capability.

When accessing the text mode, the colour keys marked red, green, yellow and blue, allow you to access the Fastext functions of your Television. If on your original remote control these keys are used for Menu navigation, the TOTAL CONTROL Fastext keys may operate the same. For a more detailed explanation of Teletext and Fastext, please refer to the manual of your Television. Remember, different televisions control Teletext and Fastext functions in different ways. Not all of the Teletext functions may be available on your particular model.

TEXT ON: Puts the television in the Teletext mode.

TEXT OFF: Switches the television back to regular viewing mode. On some televisions, this may be done by pressing the TEXT ON key several times.

HOLD/STOP: Stops changing pages.

EXPAND: Shows the top half of the Teletext page in larger letters. By pressing again, you can see the bottom half of the Teletext page enlarged. To return to regular Teletext viewing, press the EXPAND key again, or press the TEXT ON key, depending on your television.

Custom keys (A – F)

The custom keys are spare keys which give you the possibility to customize the TOTAL CONTROL 6 according to your original remote control using the "Learning feature" (see page 12).

Setting up your devices

Example: to set up the TOTAL CONTROL for your Television:

- Find your device code in the code section (page 15 29). Codes are listed by brand name. The most popular code is listed first. Make sure your television is switched on (not on standby).
- 2 Press and release the TV key on your TOTAL CONTROL.



3 Press and hold down the SET key until the red light blinks twice (the red light will blink once and then twice).



4 Enter your four-digit code using the number keys. The red light will blink twice.

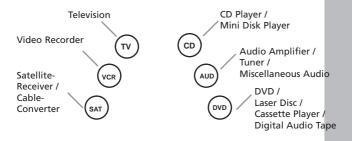


5 Now, aim your TOTAL CONTROL at your television and press POWER. If your television switches off, your TOTAL-CONTROL should be ready to control your television.



- If your device does not respond, follow steps I through 5 with each code listed for your brand. If none of the codes listed for your brand operate your device, then try the Search Method described on page 7, even if your brand is not listed at all.
- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, try another code listed under your brand.
- If the original remote control from your Video Recorder did not have a Power key, press PLAY instead of POWER during step 5.
- To set up your other devices, follow the same instructions above, only press the appropriate device key during step 2.
- Remember to press the correct device key before operating your device. Only one device (CD, amplifier, cassette etc.) can be assigned to a device key. If your original remote operates more than one device (for example; a receiver, CD player and cassette player in one remote), you need to set up each device separately.
- Write your code in the boxes provided in the battery compartment and on page 8, for quick, easy reference.

Devices can be found under the following keys:



To set up a second TV, VCR, SAT, CD, AUD or DVD see page 9.

The Light key

The TOTAL CONTROL allows you to illuminate the entire keypad with the press of a key. This backlit feature can be switched on or off with the Light key on your TOTAL CONTROL keypad. If the backlit feature is switched on, every time a key is pressed, the keypad will automatically light up for about 10 seconds.

To preserve battery life, turn off the Light feature when not needed.

The Search Method

3

If your device does not respond to the TOTAL CONTROL after you have tried all the codes listed for your brand, try the Search Method. The Search Method may also work if your brand is not listed at all.

Example: to search for your Television Code:

- Switch your Television on (not on standby).
- 2 Press the TV key on your TOTAL CONTROL.
 - Aim the TOTAL CONTROL at your Television. **Press and hold down the SET** key until the red light on the TOTAL CONTROL blinks twice.
- 4 Press **9 9 I**, the red light will blink twice.
- Now alternate between the TV and POWER key, over and over, until your Television turns off. You may have to press these keys many times (up to 150 times) so please be patient. Remember to keep pointing the TOTAL CONTROL at your Television when pressing these keys.
- 6 When your Television switches off, press the SET key to store the Code. Now your TOTAL CONTROL should be ready to control your television.
- If you cannot control your Television properly, please continue the Search Method, you may be using the wrong Code.
- To search for your other devices, follow the same instructions above, only press the appropriate device key during step 2 and 5.
- If your Video's original remote control does not have a POWER key, press PLAY instead of POWER when searching for your Code.









Blink out the Current Code

If you have set up your TOTAL CONTROL via the Search Method, you can blink back your code for future reference.

Example: To blink out your television code:

I	Press	the	TV	key	on your	TOTAL	CONT	ROL
---	-------	-----	----	-----	---------	-------	------	-----



Press and hold down the SET key until the red light blinks twice.



3 Press 9 9 0, the red light will blink twice.







For the first digit of your four-digit code, press I and count the all red blinks. If there are no blinks, the digit is "0".



For the second digit, press 2 and count all the red blinks.



6 For the third digit, press 3 and count all the red blinks.



7 For the fourth digit, press 4 and count all the red blinks.



 To blink back the code for your other devices follow the instructions above, only press the appropriate device key during step I.

Ouick Code Reference

Write down the codes for your devices in the boxes below and in the battery compartment for quick and easy reference.

Device type	Code
l	
2	
3	
4	
5	
6	

Changing a Device key

It is possible to change any device key.

Example I:

To program a second television on the DVD key (for example), you need to change the DVD key into a TV key, so press:

SET (*) - 9 9 2 - TV - DVD (**)

The DVD key has now become a second TV key.

Now enter the Set Up code for your second TV by pressing:

(TV code) (**)

Example 2:

To program a **second Video recorder** on the CD key (for example), you need to change the CD key into a VCR key, so press:

(**)

The CD key has now become a second VCR key.

2 Now enter the Set Up code for your second VCR by pressing:

(a) (VCR code)(**)

- (*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).
- (**) The red light blinks twice.

Resetting a Device Key

Example: To reset the DVD key press:

SET (*) - 9 9 2 - (DVD) - (DVD) (**)

- (*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).
- (**) The red light blinks twice.

Colour & Brightness

Depending on the functions of your original remote control, the TOTAL CONTROL can operate the colour and brightness settings of your Television.

To adjust the colour:

Press the **SET** key followed by **Volume +** (for colour +) or **Volume -** (for colour -).

To adjust the brightness:

Press the **SET** key followed by **Channel +** (for brightness +) or **Channel -** (for brightness -).

Volume Punch Through

This feature allows you to adjust the volume in a certain mode (e.g. TV mode) while being in a different mode (e.g. VCR).

Last key pressed: You can control:

VCR TV volume up and down, mute SAT TV volume up and down, mute DVD TV volume up and down, mute

To punch through to TV volume while in VCR, SAT or DVD mode

press: SET(*) 993 TV key.

To punch through to AMP/TUN volume while in CD mode

press: SET(*) 993 AUD key.

To cancel the "Volume Punch Through" press: SET(*) 993 Volume(+) (the red light will blink four times).

(*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).

Auto Scan

Your TOTAL CONTROL comes with a special Auto Scan function which lets you "scan" through every programme available on your device. For example, to scan the programmes on your TV:

I Aim the TOTAL CONTROL at your TV. Press the **TV** key. Press and release **SET** then press the **MUTE** key.

The TOTAL CONTROL will send the command to advance through all the programmes available on your Television stopping at each programme for about three seconds. Remember, you must aim the TOTAL CONTROL at your device the entire time you are using Auto Scan.

- When you find a programme you would like to watch, simply press any key on the TOTAL CONTROL key pad to stop the Auto Scan feature.
- Auto Scan may not work with devices that did not have programme (+/-) keys on the original remote control.

Device Sleeptimer

If your TV or Satellite has a "Sleeptimer" function built in, you can access this function with your TOTAL CONTROL remote. To do so:

- I Make sure your TV (or Satellite) is switched on.
- 2 Press the device key (TV or SAT).
- 3 Point the TOTAL CONTROL at your TV (or Satellite) and press and release the SET key then press POWER. You should see the Sleeptimer activate on your TV screen. To increase the timer, simply press POWER again (within 5 seconds) until the timer gets to the desired time.
- To deactivate the Sleeptimer, repeat steps I-3 above. During step 3, continue pressing Power (within 5 seconds) until the timer indicates zero minutes.
- Depending on how you used sleeptimer on the original remote, you might need to access sleeptimer in a different way (through menu for example).

TOTAL CONTROL Sleeptimer

If your device does not have a sleeptimer function built in, you can install the TOTAL CONTROL Sleeptimer function. To do so:

- I Press the device key (TV, SAT, CD or AUD).
- Then, press and hold the SET key until the red light blinks twice.
- 3 Press 9 7 0. The red light will blink twice again.
- It is only necessary to follow steps I, 2 and 3 once. For subsequent use
 of the "TOTAL CONTROL sleeptimer", simlpy follow steps 4, 5, 6 and 7.
- To switch the TOTAL CONTROL back to "Device Sleeptimer", repeat steps I, 2 and 3. The red light will blink 4 times.

Setting the TOTAL CONTROL Sleeptimer:

It is possible to set the timer for I5, 30, 45 or 60 minutes.

- 4 Make sure that your device is switched on.
- 5 Press the device key (TV, SAT, CD or AUD).
- 6 Now, press and release the SET key, then press POWER. The red light will blink once, which indicates the timer is set for I5 minutes. To increase the timer, simply press POWER again (this must be done within 5 seconds). The red light will blink twice indicating the timer is set for 30 minutes (2 x I5). You can press POWER to a maximum of four times which will set the timer to 60 minutes.
- (:15)
 POWER
 (:30)
 POWER
 (:45)
 POWER
 (:60)
- Once you have set the timer to the desired time, set your TOTAL CONTROL down, pointing it at your device. When the programmed amount of time has elapsed, the TOTAL CONTROL will send the command for POWER, hence turning off your device.
- The red light will blink every I5 seconds indicating that the remote is in sleeptimer mode.
- To deactivate the Sleeptimer, simply press any key on the TOTAL CONTROL.
- Remember, when using the "TOTAL CONTROL Sleeptimer", you must set the remote so it is pointing at your device.
- The sleeptimer can only be set for only one device at a time.

The Learning Feature

After you have set up the TOTAL CONTROL for your device, you may find that there are one or more keys that you had on the original remote control, which do not have a place on the TOTAL CONTROL keypad.

The custom keys have been especially provided for this feature. By using these keys, you will not have to sacrifice an existing function on the TOTAL CONTROL keypad. If you need to learn more than six functions per mode (max. approximately 25 functions), you need to place the learned function on another key (see "Shifted Learning" on the next page).

Before you start:

- Make sure your original remote is working correctly.
- Make sure neither your TOTAL CONTROL, nor your original remote control is pointing at your device.

Example: To copy the "mono/stereo" function from your original TV remote control onto the A-key of your TOTAL CONTROL.

- Place the TOTAL CONTROL and your original remote control on a flat surface. Make sure the ends which you normally point at your device are facing each other. Keep the remotes at a distance of 2 to 5 cm.
- 2 Press and hold the SET key until the red light blinks twice. The red light will blink once then twice.
- 3 Press 9 7 5 (the red light blinks twice).
- 4 Press the device key on the TOTAL CONTROL remote to select the mode to which you want to copy the learned function (Example: TV key).
- 5 Press the key on the TOTAL CONTROL remote where you want to place the learned function (Example: A key). The red light will flash rapidly.
- 6 Press and hold the key (on your original remote control) that you want to copy until the red light blinks twice (Example: mono/stereo key).
- 7 If you want to copy other functions within the same mode, simply repeat steps 5 and 6 pressing the next key you want to copy by learning.
- 8 To exit the learning mode, press and hold the SET key until the red light blinks twice.
- Learning is mode specific. To access your learned function, press the appropriate device key first.



Shifted Learning:

To install a Shifted learning function, simply follow steps I-8 on the previous page, only press the SET key before step 5.

To access the shifted function, press the SET key and then the key you have learned on.

To delete a learned function:

- Press and hold the SET key until the red light blinks twice. The red light will blink once then twice.
- 2 Press 9 7 6 (the red light blinks twice).
- 3 Press the device key in which the function will be deleted.
- 4 Press twice on the learned key which will be deleted. (*)
- 5 If there is another key that you want to delete, repeat steps I – 4
- 6 The original functions of the TOTAL CONTROL will now be present.
- (*) To delete a Shifted Learned function, press the SET key once before you press the learned key to be deleted.

To delete all learned functions across all modes:

- Press and hold the SET key until the red light blinks twice. The red light will blink once then twice.
- 2 Press 9 8 0 (the red light will blink four times).
- During steps 2 7 (page 12), you have approximately 10 seconds to conduct each step. If there is a gap of more than 10 seconds between two steps, you will have to start again from step number 2.
- If you learn a function on another key besides the "A F keys", the original TOTAL CONTROL feature automatically becomes shifted. Press the SET key then the key to access it (this excludes the POWER, Mute, Channel and Volume keys.
- The learning feature is mode specific. Therefore you can place one learned function per mode on the same key.
- If a Shifted Learned function is placed on the Mute, Channel and Volume keys then the "Auto Scan" and "Colour & Brightness features will be sacrificed.
- The TOTAL CONTROL can learn approximately 25 functions.
- You can replace a learned function by placing another learned function on top.
- Learning should not be done in direct sunlight or under incandescent lights.
- Make sure you are using new batteries before following the instructions above.
- Upon changing the batteries, your learned functions will be retained.

Trouble-Shooting

Problem:	Solution:
Your brand is not listed in the TOTAL CONTROL code section?	Try the Search Method on page 7.
The TOTAL CONTROL does not operate your device(s) ?	A) Try all the codes listed for your brand. B) Try the Search Method on page 7.
The TOTAL CONTROL is not performing commands properly?	You may be using the wrong code. Start the Search method over again to locate the proper code.
Problems changing channels ?	Enter the programme number exactly as you would on your original remote.
Video not recording ?	As a safety feature on your TOTAL CONTROL, you must press the Record key twice.
The TOTAL CONTROL does not respond after pressing a key ?	Make sure you are using new batteries and are aiming the TOTAL CONTROL at your device.
The red light does not blink when you press a key?	Replace batteries with 4 fresh, new AAA/LR3 alkaline batteries.

Customer Service

Your TOTAL CONTROL model: URC 4160

Date of purchase: /

If you have any questions about the operation of your new TOTAL CONTROL Universal Remote Control, you may call our Customer Service for assistance. Before calling please read this manual carefully to find an answer to your question. If you cannot find a solution in this manual, please complete the information below on all your equipment before calling.

A list o	A list of your equipment/models: (see example below)				
Туре	Brand	Model No.	Remote Model No.	TOTAL CONTROL	
TV	Saba	TCW 301	MB 100	0648 (ex)	

manual or on the factory plate behind the device.

Opening hours: 8.00 am - 5.00 pm (Mon.-Fri.)

In Australia: 1800 812 261

Televis	sions	Ayomi Baird	0261 0132 0216 0366 0213
A.R.			0215 0095 0096 0240 0231
Systems	0060 0375	Bang &	
Accent Acec	0060 0035	Olufsen	0588 0110
Admiral	0110 0116 0441 0328	Barco Basic Line	0403 0186 0241 0032 0397 0060
	0287	Dasic Line	0590 0186 0305
Adyson Agashi	0240 0239 0239 0287	Bastide	0240
AGB	0539	Baur	0326 0218 0535 0060
Agef	0110		0577 0384 0372 0528 0033
Aiko	0239 0032 0060 0394	Bazin	0240
	0058 0095 0384 0287 0240	Beko	0393 0509 0060 0629
Aim	0060	Beon	0060 0441
Akai	0384 0231 0456 0394	Best Bestar	0360 0393 0060 0393 0397
	0060 0058 0032 0095 0241 0186 0539 0625	Binatone	0240
	0579 0571 0503 0240	Black Star	
	0654 0239 0287 0400	Blacktron Blackway	0305 0305
Akiba	0629 0241 0305 0478 0060	Blaupunkt	0577 0218 0223 0350
Akito	0295 0060		0351
Akura	0241 0382 0305 0032	Blue Sky	0241 0305 0478 0060
Alaron	0435 0287 0060 0691 0202 0239	Blue Star	0510 0691 0305
Alba	0241 0258 0032 0441	Bondstec	0270
	0393 0378 0394 0060	Boots	0295 0240
	0239 0270 0186 0510 0059 0691 0602	BPL Brandt	0305 0060 0132 0422 0260 0356
Alcyon	0099	Dianut	0310 0358 0591 0648
Allorgan	0229 0317 0240		0441 0060 0542
Allstar	0060 0240 0423 0343 0393	Brionvega	0060 0110 0385
Amstrad	0200 0032 0539 0287	Britannia Brother	0239 0240 0287
	0377 0241 0394 0385	Bruns	0110
Anam	0435 0060 0060 0032	BSR	0186 0317
Anam	0000 0032	BTC Bush	0241 0691 0241 0258 0186
National	0060	Busii	0372 0032 0059 0305
Anglo Anitech	0032 0287 0032 0099 0287 0060		0060 0295 0378 0394
Ansonic	0393 0315 0125 0032		0397 0542 0287 0384 0510 0231 0317 0240
	0060 0397 0186 0434	Capsonic	0287
Apollo	0282 0270 0035 0496	Carad	0633 0060
	0422 0132 0591 0356	Carena	0478 0060
Arcam	0239 0422 0240	Carrefour Carver	0059 0093 0193
Ardem	0509 0060 0579 0035	Cascade	0032 0060
Aristona Arthur	0000 0379 0033	Casio	0060
Martin	0186 0423	Cathay CCE	0060 0060 0240
ASA	0128 0369 0093 0127	Centurion	0060 0240
Asberg	0110 0060 0099	Century	0110 0270 0261
Asora	0032	CGE	0097 0107 0099 0270
Asuka	0241 0287 0239 0305	Cimline	0186 0441 0393 0032 0258 0241
Atlantic	0240 0060 0239 0229 0282	City	0032
	0343	Clarivox	0441 0093
Atori	0032	Clatronic	0241 0287 0393 0394 0240 0099 0270 0060
Auchan Audiosonic	0186 0423 0060 0132 0240 0393		0032 0125 0343 0602
	0360 0287 0241 0509	CMS	
Audioton	0240 0509 0393 0287	hightec	0240

Concorde

Condor

Contec

Ausind

Autovox

AWA

0099

0239 0629

0110 0229 0260 0099 0372 0240 0270

0034 0721 0059 0032

0180 0397 0435 0060

0032

0059

0239 0270 0305 0343

0060 0393 0032 0125 0434 0441

0239 0032 0180 0034

Continental	l į	Europa	0060
Edison	0132 0260 0422 0356	Europhon	0060 0539 0125 0240
	0310 0510 0591		0270 0186
Cosmel	0032 0360	Expert	0229 0423 0282 0186
Crosley	0110 0270 0097 0107		0328
_	0099 0186	Exquisit	0060 0270
Crown	0032 0393 0509 0099	Family Life	
	0060 0382 0602 0441	Fenner	0397 0032
CS	0231 0510 0076	Ferguson	0096 0310 0215 0213
	s0270 0239 0241		0358 0261 0216 0132 0648
CTC	0270	Fidelity	0216 0239 0394 0186
Curtis	0270	ridenty	0287 0060
Mathes	0116 0168	Filsai	0240
Cybertron		Finlandia	0231 0369 0382 0571
Daenyk	0202		0384
Daewoo	0032 0060 0239 0397	Finlux	0128 0127 0060 0369
	0241 0240 0522		0240 0095 0186 0099
Dainichi	0241 0239		0539 0093 0110 0202
Dansai	0060 0287 0058 0239		0125 0434 0654 0515
D	0032	Cinatina	0503
Dansette Dantax	0435 0393 0509	Firstline	0317 0344 0239 0060 0397 0270 0032 0186
Dantax	0231		0125 0240 0434 0372
Dawa	0060		0261 0095 0258 0691
Daytron	0032 0397 0060		0231
de Graaf	0231 0067 0250 0186	Fisher	0127 0240 0059 0231
	0571		0393 0068 0110 0180
Decca	0095 0539 0060 0295		0384 0186 0326 0372
	0240		0095
Deitron	0060	Flint	0060 0478 0095 0241
Denko	0287	FNR	0125
Denon	0168	Forgestone	
DER	0216 0213	Formenti	0110 0239 0343 0186
Derwent Desmet	0224 0343 0060	Fortress	0099 0116 0110
Diamant	0060	Fraba	0393 0060
Digiline	0060	Friac	0032 0060 0125
Dixi	0032 0060 0270 0240	Frontech	0270 0287 0372 0240
Domland	0417		0032
Doric	0224	Fujitsu	0202 0229 0095 0125
Drean	0060		0240 0186 0032 0375
DTS	0032	Fujitsu	
Dual	0372 0240 0366 0282	General	0032 0240
	0542 0060 0375 0417	Funai	0287 0202 0317
Dumont	0422 0326 0186 0110 0127 0125 0240	Galaxi Galaxis	0125 0060 0393 0441 0060 0125
Dulliont	0093 0095	GBC	0186 0032 0397 0241
Dux	0060 0035	GE	0132 0305 0310 0358
Dynatron	0060	<u> </u>	0366
Elbe	0458 0261 0282 0385	Geant	
	0315 0393 0186 0060	Casino	0186 0423
	0241 0434 0633	GEC	0066 0095 0186 0384
Elcit	0110 0270 0539 0125		0539 0060 0240 0372
FLU	0186	Geloso	0270 0032 0186 0397
Elekta	0287 0305	General	0613 0132 0310 0494
ELG Elin	0060 0239 0060 0128 0127	General Technic	0032
	0571 0384 0328 0372	Genexxa	0241 0060 0435
	0186 0032	Goldhand	0239
Elite	0241 0060	Goldline	0360
Elman	0125	GoldStar	0060 0393 0032 0400
Elta	0032 0287 0239		0240 0270 0239 0186
Emerson	0200 0110 0270 0060		0384 0067
	0202 0394 0093 0305	Goodmans	0059 0095 0060 0032
_	0343		0287 0539 0202 0397
Emperor	0305 0060 0035		0510 0394 0522 0579
Erres ESC	0060 0035		0366 0258 0058 0503 0240 0358
Etron	0060 0032 0186	Gorenje	0393
Eurofeel	0287	GPM	0241
Euroman	0239 0287 0060 0240	Gradiente	0060 0076 0193
	0393	Graetz	0060 0384 0394
	I		

Granada	0060 0423 0249 0379	Internal	0060
Granada	0382 0035 0068 0095	Intervision	0305 0240 0478 0060
	0131 0231 0240 0099	IIILEI VISIOII	0394 0400 0542 0509
	0059 0539 0224 0496		0393 0417 0510 0241
	0358		0125 0186 0287 0270
Grandin	0305 0241 0423 0060	Irradio	0032 0060 0241 0270
Granum	0032 0343 0186 0478	inadio	0099
	0602 0633	Isukai	0241 0060 0305
Gronic	0125 0240	ITC	0240
Grundig	0218 0577 0510 0093	ITS	0060 0394 0241 0305
arunaig	0099 0260 0060 0579		0287 0239
Halifax	0287 0239 0240	ITT	0186 0503 0372 0384
Hampton	0239 0240		0496 0571 0590 0216
Hanimex	0317		0369 0231 0202
Hanseatic	0060 0315 0305 0372	ITT Nokia	0384 0571 0186 0496
	0186 0384 0417 0343		0503 0372 0369 0231
	0393 0032 0317 0240		0202 0590 0629 0633
	0542 0110		0654
Hantarex	0032 0060 0125	ITV	0287 0060 0270
Hantor	0060	Jean	0059
Harley		JEC	0058
Davidson	0202	JVC	0676 0076 0117 0213
Harwood	0032 0435 0060		0059 0215 0216 0394
Hauppauge	0060		0241 0629
HCM	0287 0032 0305 0435	Kaisui	0241 0305 0060 0239
	0240 0241 0441 0060		0478 0240 0032
Hema	0240 0032	Kamp Kapsch	0239 0229 0186 0384 0282
Hemmer-		Napscii	0127
mann	0372	Karcher	0060 0393 0305 0125
Hifivox	0132 0422 0591	Raididi	0633 0287
Highline	0287 0060	Kawasho	0239
Hikona	0241	KB	5255
Hinari	0231 0202 0059 0060	Aristocrat	0186
	0241 0032 0186 0378	Kendo	0385 0258 0270 0125
Lliague	0466 0510 0258 0317		0060 0393 0434 0633
Hisawa Hit	0305 0241 0423 0478		0400 0542
Hitachi	0110 0248 0059 0372 0379	Kennedy	0229 0186 0458
піасііі	0067 0066 0496 0186	Kingsley	0239
	0366 0601 0240 0250	Kneissel	0458 0282 0315 0393
	0217 0539 0095 0504		0261 0060 0434 0633
	0522 0060 0586 0168	Kolster	0060 0125 0372
	0128 0579 0571	Konka	0241 0394 0060
Hitachi	0.20 00.0 00	Kontakt	0510
Fujian	0131	Korpel	0060
Hitsu	0032 0478 0241	Korting	0110 0393 0343
Hornyphone		Kosmos Kotron	0060 0435 0287
Hoshai	0241 0478	Kraking	0261
Huanyu	0397 0239	KTV	0240
Hygashi	0240 0239	Kyoshu	0287 0435 0441
Hyper	0032 0239 0240 0270	Kyoto	0186
Hypersonic	0384	Lecson	0060
Hypson	0060 0287 0240 0305	Lemair	0434
	0478 0423 0261	Lenco	0032 0397 0127 0186
Iberia	0060		0060
ICE	0287 0240 0060 0394	Lenoir	0032
	0241 0239 0032	Lesa	0270
Ices	0241 0239	Leyco	0287 0095 0060 0317
Imperial	0060 0270 0393 0441		0602
	0186 0097 0107 0099	LG	0060 0393 0032 0400
Landard Co.	0372		0240 0270 0239 0186
Indesit	0260	l	0384
Indiana	0060 0510 0633		r0060 0350 0351 0035
Ingelen		Lifetec	0032 0287 0542 0060
Ingersoll Inno Hit	0032 0032 0095 0060 0241	Lloyd's	0397 0241 0691 0535
IIIIO UIL	0240 0099 0539 0270	Lloyd's	0032 0535 0060 0110 0315
Innovation		Loewe	0393
Interactive		Logik	0034 0216 0394
Interactive	0032 0287 0270	Logix	0691
Interfunk	0060 0035 0110 0535	Luma	0229 0328 0060 0385
	0298 0350 0186 0384		0186 0282 0434 0397
	0393 0132 0591		0032
		1	

Lumatron	0229 0328 0060 0385	NAT	0237 0249
Lamation	0186 0282 0384 0240	National	0260 0237 0249
	0287 0096	NEC	0193 0059 0343 0478
Lux May	0060 0032		0032 0397 0240 0060
Luxor	0217 0260 0503 0515		0034
	0372 0384 0231 0379	Neckermanı	n0060 0393 0528 0033
	0571 0186 0369 0496		0223 0577 0579 0186
	0202		0350 0441 0372 0110
Madison	0060	NE	0270 0240 0434
Magnadyne	0110 0270 0539 0125	NEI	0060 0360 0394
Mannafan	0186	Nesco Netsat	0270 0202 0060
Magnafon Magnavox	0539 0099 0125 0239 0059 0202 0060	Network	0360
Mandor	0287	Neufunk	0060 0032 0579 0633
Manesth	0060 0258 0240 0287	New Tech	0060 0032 0579 0366
	0343 0058 0317		0240
Manhattan	0060 0691	New World	
Marantz	0060	Nicamagic	
Marelli	0110	Nikkai	0095 0241 0060 0240
Mark	0060 0240 0239 0397		0287 0058 0360 0239 0032 0059
	0032	Noblex	0060 0287
Masuda	0241 0032 0394	Nobliko	0125 0099 0093 0239
Matsui	0258 0200 0032 0378		0422 0132 0591
	0034 0095 0059 0060 0579 0510 0240 0377	Nokia	0384 0186 0503 0372
	0317 0394 0466 0602		0571 0515 0382 0496
	0478 0295 0372 0539		0231 0397 0654 0629
	0058 0186 0231 0068		0369
	0218 0358	Nordmende	0132 0310 0422 0366
McMichael	0066		0591 0218 0060 0358
Mediator	0060 0579 0035		0060 0128 0397 0590 0186 0423 0384
Medion	0060 0691 0542	Oceanic	0317 0231 0586
Megas	0633	Odeon	0287
Megatron	0168	Okano	0393 0060 0287 0095
Melectronic	0369 0060 0535 0132	Omega	0287
	0366 0270 0128 0127	Onwa	0394 0625 0241
	0397 0032 0240 0503 0515 0239 0434 0372	Opera	0060
Melvox	0423	Optimus	0273
Memorex	0032 0273	Optonica	0116
Memphis	0360 0095 0032	Orbit	0060
Mercury	0060 0032	Orion	0202 0258 0317 0200 0343 0378 0034 0060
Metz	0110 0218 0470 0262		0032 0344 0125 0466
	0577 0298 0390 0411		0579 0287 0435
	0610	Orline	0060 0241
Micromaxx		Ormond	0691
Minerva	0510 0218 0093 0099	Osaki	0095 0241 0240 0287
Minoka	0577 0260 0435 0060 0382		0060 0435 0295 0397
Mitsubishi	0131 0535 0060 0116	Osio	0060
WIITOGOTOTII	0377 0110 0059 0224	Oso	0241 0180 0095 0059 0241
	0260 0216	Osume Otto	0160 0095 0059 0241
Mivar	0315 0393 0099 0239	Versand	0033 0528 0059 0116
	0632	70.04.14	0535 0060 0579 0218
Monaco	0032		0372 0577 0384 0258
Morgan's	0060		0132 0317 0249 0270
Motion	0099		0326 0343 0240
Motorola MTC	0116 0393 0372 0535 0239	Pael	0239
MTEC	0295	Palladium	0393 0060 0528 0033
Multi-	0293		0223 0441 0577 0579 0270 0350 0372 0110
broadcast	0216		0186 0240 0434 0542
Multi-	-	Palsonic	0287 0435 0060 0240
standard	0125		0400
Multitec	0060 0691	Panama	0032 0240 0287 0239
Multitech	0240 0372 0032 0239		0060 0270
	0270 0125 0509 0393	Panasonic	0249 0673 0273 0149
Murahy	0060		0237 0384 0260 0390
Murphy Musikland	0127 0239 0095 0186 0241	Danavioles	0539 0060 0186 0571 0060 0434
NAD	0384	Panavision Pathe	0000 0434
Naiko	0060	Cinema	0186 0261 0239 0423
Nakimura	0397 0060	J101110	0343 0315 0372

Pathe		Rediffusion	0224 0384 0571 0059
Marconi	0132 0356 0422 0260	Redstar	0060
	0591	Reflex	0060
Pausa	0032	Revox	0060 0393
Perdio	0095 0343 0186 0060	Rex	0328 0229 0434 0270
Perfekt	0060		0186 0282
Pershin	0423	RFT	0110 0315 0393 0095
Philco	0110 0107 0097 0441		0287
	0099 0270 0186 0393	Rhapsody	0239
	0060 0168	Roadstar	0032 0287 0241 0441
Philharmoni		D. b. d	0060
Philips	0060 0579 0035 0036	Robotron	0110
	0577 0593 0066 0110 0216 0446 0366 0397	Rodex	0060 0393 0435
Phoenix	0060 0110 0343 0509	Royal Lux Saba	0648 0310 0110 0422
FIIOEIIIX	0393 0239 0186 0095	Saba	0186 0132 0539 0366
Phonola	0060 0579 0035 0110		0384 0358 0591 0571
Ποποια	0216 0239	Sagem	0478 0633 0305
Pilot	0060 0579	Saisho	0258 0539 0200 0032
Pioneer	0060 0446 0393 0366	04.01.0	0034 0240 0186 0287
	0384 0132		0377
Pionier	0393 0509	Salora	0217 0372 0186 0379
Plantron	0060 0287 0032		0382 0384 0539 0571
Playsonic	0240	Sambers	0539 0099 0125
Policom	0591	Samsung	0060 0579 0610 0667
Poppy	0032	•	0032 0240 0393 0287
Portland	0397		0239 0095 0231
Powerpoint	0510	Sandra	0239 0240
Prandoni-		Sanela	0261
Prince	0270 0539 0384 0099	Sansui	0060 0394
Precision	0240	Santon	0032
Prima	0032 0287	Sanyo	0231 0180 0169 0315
Prinz	0095 0372 0217		0059 0034 0393 0095
Profex	0032 0186		0239 0240 0127 0068
Profitronic		_	0032 0186 0060
Proline	0344 0095 0060 0035	Save	0060
Dunnania	0648	SBR	0060 0579 0035
Prosonic	0060 0237 0239 0393 0397 0602 0394 0691	Schaub	0372 0571 0629
Protech	0060 0240 0032 0270	Lorenz Schneider	0060 0579 0035 0326
Tiotech	0372 0125 0287 0441	Scrineidei	0372 0542 0417 0375
	0360 0691		0282 0366 0240 0270
Provision	0522 0060		0394 0241 0384 0186
Pye	0060 0397 0579 0035		0691
,	0110	Scott	0202
Pymi	0032	Sears	0202
Quadra		SEG	0240 0287 0032 0270
Vision	0423		0059 0125 0385 0186
Quasar	0270 0273		0060 0239 0691 0510
Quelle	0060 0033 0034 0132	SEI	0110 0125 0033 0186
	0535 0372 0577 0384		0539 0372 0317 0229
	0059 0240 0270 0097		0060
	0107 0350 0093 0127	Seleco	0328 0229 0282 0385
	0128 0180 0218 0223	_	0186 0434
	0287 0691	Sencora	0032
Questa	0059	Sentra	0058 0241 0032
R-Line	0060	Serino	0478 0633
Radialva	0132 0241 0186 0060	Sharp	0116 0279 0180 0059 0317 0676 0076 0117
Radiola	0060 0579 0035 li 0110 0224 0539 0270		
nauiomarei		Shorai	0216
RadioShac	0060	Shorai Siam	0317 0202 0060
Radiotone	0032 0060 0393 0602	Siam	0186 0110 0125
i idululul le	0441 0287 0435	Siemens	0577 0223 0218 0350
Rank	0093	Olemens	0351 0180 0060
RCA	0648 0358 0116	Siera	0060 0579 0035
Recor	0060	Siesta	0393
Rectiligne	0060	Silva	0239 0060
	* -		

Silver	0059 0060 0384 0202	Telefunken	0132 0494 0422 0310
Singer	0110 0125 0270 0423	reierunken	0097 0107 0124 0358
Sirigei	0458 0032 0060		0285 0096 0366 0060
Sinudyne	0200 0110 0258 0125		0509 0591 0648
	0317 0186 0384 0539	Telefusion	0060
	0372 0033 0229 0060	Telegazi	0060 0186 0282 0241
Skantic	0379	•	0287
Sky	0060	Telemeister	0343 0060
Sogera	0343	Telesonic	0060
Solavox	0384 0095 0186 0571	Telestar	0060
Sonawa	0241	Teletech	0032 0270 0360 0060
Sonitron	0231 0393 0240	Teleton	0691 0240 0298 0229 0186
Sonneclair Sonoko	0060 0032 0287 0305	reletori	0372 0282 0059
SOLIOKO	0240	Televideon	0343 0186 0239
Sonolor	0231 0590 0186 0423	Televiso	0423
00110101	0528 0033 0571 0384	Temco	0317
Sontec	0060 0393 0317	Tempest	0032 0060
Sony	0528 0033 0034 0059	Tennessee	0060
	0125 0097	Tensai	0127 0241 0060 0240
Sound &			0317 0343 0032 0128
Vision	0125 0241 0397	_	0397 0394 0400 0270
Soundesign		Tenson	0343 0032
	0060 0343 0441	Tevion	0542 0060 0691 0240 0397 0032
Spectra	0032	Texet Thomson	0310 0422 0132 0356
Ssangyong Standard	0241 0032 0240 0343	momson	0494 0358 0260 0366
Otaridard	0060 0397		0060 0591 0648
Starlite	0032 0186 0060 0287	Thorn	0216 0096 0213 0261
Stenway	0305 0241		0215 0097 0107 0522
Stern	0328 0229 0282 0186		0060 0127 0358 0535
Strato	0060 0287 0032		0382 0295 0397 0058
Sunkai	0317 0378 0344 0478	Tokai	0095 0060 0360 0186
	0241 0258 0060 0510	- .	0240 0397 0032
Sunstar	0394 0060 0032 0602	Tokyo	0239 0058
Sunwood	0060 0032	Tomashi	0305 0241
Superla	0539 0239 0032 0060 0239 0579	Toshiba	0058 0531 0266 0059 0093 0125 0240
Superfecti	0241	Towada	0372 0125 0240
Supra	0397 0032	Toyoda	0032
Susumu	0358	Trakton	0287
Sutron	0032	Trans	
Swissline	0270	Continens	0240 0060
Sydney	0239 0240	Transonic	0060 0478 0610 0535
Sytong	0239	Transtec	0239
Tactus	0295	Trident	0539 0240
Tandberg	0390 0434 0132 0360	Tristar	0241 0216 0200 0539 0369 0579
Tandy	0385 0384 0241 0095 0240 0270	Triumph	0060 0266
Tandy	0116	Uher	0099 0060 0229 0343
Tashiko	0059 0066 0240 0193	01.0.	0326 0397 0441 0509
	0239 0382 0186		0393 0282
Tatung	0095 0539 0240 0295	Ultra	0215
_	0060 0034	Ultravox	0110 0125 0397 0270
Teac	0060 0721 0535 0478		0239 0186 0060
	0287 0032 0435 0372	Unic Line	0060 0496
TEO	0194	United	0060
TEC	0240 0032 0270 0494	Universum	0369 0128 0218 0496 0384 0270 0515 0503
Tech Line	0358 0360 0282 0060 0691		0393 0223 0441 0034
Techica	0241		0535 0317 0059 0180
Technema	0343		0093 0186 0287 0127
Technics	0273		0060 0434 0097 0350
Tedelex	0240		0351 0033 0528 0099
Teiron	0032		0372 0240 0132 0385
Teknika	0202		0360 0200 0654 0691
Teleavia	0132 0310 0422 0356	Univox	0360 0110 0060 0186
T.1.	0591	Veetel	0261
Telecor	0060 0186 0241 0240 0282 0417	Vestel Vexa	0060 0186 0240 0032 0060
	0202 UT11	70/14	3332 3000
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0316

0064 0127 0263

Graetz

Olufsen

0522

Basic Line 0301 0043 0095

Granada	0127 0071 0104 0029	NAD 0127
	0263 0060 0065 0023	National 0185
Grandin	0095 0060 0043 0023 0301	NEC 0064 0061 0090 0127 0060
Grundig	0218 0104 0370 0029	Neckermann 0064 0029 0104
	0343 0371	Nesco 0095 0023 0375
Hanimex	0375	Nikkai 0043 0095 0301
Hanseatic		Nokia 0127 0338 0064 0301
Hantor	0043	0263 0071 0065 0104
Harwood	0095	Nordmende 0064 0343 0517 0551
HCM Hinari	0095 0027 0095 0316 0375	0090 0516 Oceanic 0023 0071 0104 0127
Illian	0064 0301	0064
Hisawa	0375	Okano 0338 0371 0095 0301
Hitachi	0065 0064 0023 0263	Orion 0027 0375 0371 0356
	0104 0027 0127	0357
Hornyphon	e0104	Orson 0023
Hypson	0095 0301 0375	Osaki 0023 0060 0095
Impego	0043	Osume 0316
Imperial	0023 0263	Otake 0356 0357
Ingersoll	0027 0263	Otto
Inno Hit	0043 0263 0301 0095	Versand 0104
Interbuy	0060 0095	Palladium 0095 0338 0060 0064
Interfunk	0104 0127	0029 0027 0263
Internal	0301	Palsonic 0095 0023 Panasonic 1185 0249 0185 0477
Internation	0023 0301 0060 0371	Pathe Pathe
Irradio	0025 0301 0000 0371	Cinema 0027 0066
ITT	0064 0127 0263	Pathe
ITT Nokia	0071	Marconi 0064
ITV	0301 0060 0043	Perdio 0023
JVC	0064 0090	Philco 0061 0095
Kaisui	0095	Philips 0104 0029
Karcher	0301	Phonola 0104
Kendo	0338 0371 0095 0060	Pioneer 0090 0104 0065
Kenwood		Portland 0043 0301
Kimari	0070	Prinz 0023
Kneissel	0375 0371 0060 0095	Profitronic 0104 0263 Proline 0023 0316 0343
Korpel Kuba	0070	Prosco 0301
Kyoto	0095	Prosonic 0301 0023
Leyco	0095	Protech 0104
LG	0060 0023 0301	Provision 0301
Lifetec	0371	Pye 0104
Loewe	0104 0029 0060 0027	Quelle 0029 0104
	1185 0185 0477	Radialva 0060 0095 0104 0071
Logik	0027 0263 0095	Radiola 0104
Lumatron	0301	Rank 0064
Luxor	0066 0095 0127 0070	Rex 0064
Magnovov	0071	RFT 0043 0095 Roadstar 0263 0095 0060 0301
Magnavox Manesth	0095 0068 0104	Royal 0095
Marantz	0104 0061 0029	Saba 0064 0343 0517 0603
Mark	0301 0043	0301
Matsui	0027 0371 0060 0263	Saisho 0027 0371
	0375 0023	Salora 0066 0127
Mediator	0104	Samsung 0263 0455
Medion	0371 0375	Samurai 0043
	0023 0060 0061	Sansui 0064 0090 0095 0371
Memorex	0127 0023 0060 0071	Sanwa 0027
	0070	Sanyo 0127 0070 0071 0090
Memphis	0095	0069
Metz	0218 0370 0104 1185 0185 0477 0029	Saville 0375 0301 0263 SBR 0104
Micormo	0185 0477 0029	SBR 0104 Scan Sonic 0263
Micormay Migros	0023	Scan Sonic 0263 Schaub
Minerva	0023	Lorenz 0064 0127 0023 0338
	0066 0090 0104 0098	Schneider 0095 0023 0060 0104
Multitech		0301 0263
Murphy	0023	Seaway 0301
		•

0371 0218 0029

 Victor
 0090

 Watson
 0104 0375

 Weltblick
 0060

 Yamishi
 0095 0301

 Yokan
 0095

 Yoko
 0060 0095 0043 0263

Satellite Receivers

BVV

Canal

Canary

Satellite

0715

0667

0876 0315

Cambridge 0538 0706 0524

Carat.Som 0389	Finlandia 0478 0131
Channel	Finlux 0478 0131 0437 0596
Master 0385	Flair Mate 0736
Chess 0628	Foxtel 0902 0520
CityCom 0417 0821 0841 0630	Fracarro 0444 0894 0616
Clark 0636	Freecom 0358 0444 0757
Clarronic 0355	Freesat 0667 FTE 0354 0706 0612 0392
Clemens Kamphus 0525 0356 0857	0334 0706 0612 0392
CNT 0543	Fuba 0240 0392 0419 0444
Commander 0243	0196 0437 0596 0417
Commlink 0311	0131
Communicado	G-Sat 0206 0356
0389	Galaxi 0240
Comtec 0311 0389	Galaxis 0389 0311 0387 0553
Condor 0392 0630	0615 0392 0715 0857
Connexions 0419 0392	0856 0886 0876
Conrad 0630 0612 0596 0392 0524	Galaxisat 0344 Gardiner 0841
Contec 0417 0612 0389	GMI 0266
Cosat 0615 0387	Goldbox 0315 0876
Crown 0266	GoldStar 0358
Cryptovision0478	Goodmans 0478
D-box 0896	Granada 0131
Daewoo 0396 0736 0444	Grandin 0107
Dansat 0090 0206	Grundig 0196 0870 0594 0162
Daumling 0817	0773 0828 0368 0908
DDC 0385	Hanseatic 0628
Delfa 0886 Dew 0389 0396	Hantor 0444 0355 Hanuri 0543
Dew 0389 0396 Diamond 0609	Hanuri 0543 Harting und
Discoverer 0628	Helling 0356 0525
Diseqc 0733	Hase & Igel 0715
Disk	Heliocom 0630
Express 0240	Hinari 0385 0206 0444
Distratel 0107 0908	Hirschmann 0310 0356 0420 0421
Distrisat 0223 0615	0196 0596 0616 0518
DNR 0715	0465 0525 0821 0524
DNT 0223 0419	0419 0733 Hisawa 0355
DST 0444 Dual 0396	Hisawa 0355 Hitachi 0478
Dune 0392	HNE 0765
Dynasat 0616	Houston 0615 0243 0484
Echostar 0419 0736 0894 0876	Humax 0886
EIF 0697	Huth 0369 0630 0355 0387
Einhell 0356 0540 0266 0444	0389 0311 0540 0243
0311 0275 0536 0736	0612 0525 0266 0817
0524 0817 0155	0155
Elekta 0543 Elsat 0712	Imex 0107 International0155
Elta 0387 0444 0223 0392	International 133
Emanon 0444	Intervision 0615 0651 0630 0387
Emme Esse 0392 0525 0894	Invideo 0894
Engel 0736	Italtel 0894
EP Sat 0478	ITT Nokia 0131 0596 0478 0420
Eurieult 0107 0908	0896
Eurocrypt 0478 0131	Johansson 0355 0387
Europa 0243 0612 0524 0223	JOK 0713 0733
0886 0630	JVC 0538 0594 K-SAT 0736
European 0817 Eurosat 0266 0609	Kamm 0903 0736
Eurosky 0266 0392 0630 0310	Kathrein 0354 0381 0196 0417
0155	0465 0527 0503 0616
Eurostar 0630 0903	0223 0645 0115 0356
Eutra 0667 0821	0681 0736 0636 0841
Exator 0444 0538 0636	0921
Fagor 0615 0387	Key West 0817
Ferguson 0090 0206 0478 0359	Kolon 0444
0637 0734 Fidelity 0275 0484 0698 0524	Konig 0630 Koscom 0857
,	ROSCOIII 0007
2.4	

Kosmos	0354 0465 0358 0525	Neusat	0715 0736 0857
KR	0636 0667 0821 0615	Nikko	0266 0736 0757
Kreiselmeyer	r0196	Nokia	0131 0596 0896 0478
Kyostar	0444 0636		0420 0876
L&S		Nomex	0521
Electronic		Norco	0521
Lasat	0536 0543 0392 0630 0389 0266 0706 0155	Nordmende	0385 0478 0543 0444
Lemon	0715	Novis	0637 0355
Lenco	0358 0243 0396 0444	NTC	0525 0821
	0736 0715 0553 0521	Oceanic	0609 0356
	0392 0630	Octagon	0396 0444 0243 0389
Lennox	0615	Ü	0636
Lenson	0524	Okano	0266 0525 0354
Lexus	0223	OnDigital	0156 0157 0264
Leyco LG	0538 0358	Optex	0417 0615 0387 0854
Lifesat	0628 0392	0-4:	0616
Lion	0356	Optima Orbit	0525 0374 0396 0356
Loewe	0266	Orbitech	0524 0612 0564 0444
Lorenzen	0243 0715 0817 0630	Orbitcon	0571 0285
	0765 0155	Origo	0521
Lorraine	0358	OSAT	0368
Lupus	0392	Oxford	0538
Luxor	0131 0368 0596 0896 0524	Pace	0520 0743 0478 0870
M&B1	0628		0090 0206 0359 0814
Macab	0609	Pacific	0818 0264 0609
Manata	0733 0736	Packsat	0733
Manhattan	0478 0615 0543 0387	Palcom	0385
	0521 0733 0857	Palladium	0266 0594 0444 0524
Marantz	0223	Palsat	0524
Mascom Maspro	0465 0115 0359 0518 0667	Panasonic	0478 0870
Ινιασρίο	0773 0736 0196 0594	Panda	0478 0090 0131 0630
	0715	D. I. S. I	0196 0857
Master's	0417	Patriot	0538 0223 0315 0243 0206
Matsui	0594 0733 0385 0196	Philips	0478 0690 0773 0733
Max	0630		0636 0828 0612 0240
MB	0628		0876 0594 0196 0156
Mediabox Mediamarkt	0315 0876		0157 0841 0921
	0553 0524 0315 0876	Phoenix	0389 0206
Medion	0736 0392	Phonotrend	0311 0615 0387 0525
Medison	0736	D:	0886
Mega	0223	Pioneer PK Sat	0876 0315 0356
Melectronic		Planet	0894
Metronic	0444 0266 0636 0311	Polytron	0417 0419
Metz	0543 0107 0841 0908 0196	Predki	0355 0444
Micro	0630 0636	Preisner	0266 0536 0612 0155
Micro	0000 0000		0419 0706 0817
electronic	0736	Premier	0615 0525
Micro		Premiere	0315 0876 0896 0757
	0356 0736 0553	Pro Visat Prosat	0311 0385 0651
Microtec	0736	Prosonic	0765
Minerva Mitsubishi	0594 0478	Protek	0609 0356
Mitsumi	0536	Proton	0356
Morgan's	0266 0223 0536 0706	Provision	0543
Ü	0817 0736 0387 0612	Pye	0594
	0852 0155	Pyxis	0854 0857
Multistar	0354	Quadral	0385 0311 0392 0612
Muratto	0358 0344	Quelle	0651 0733 0275 0630 0765
Mysat Navex	0736 0355	Radiola	0223
NEC	0201	Radix	0419 0667 0905
Network	0206	Rainbow	0636 0667
Neuhaus	0553 0524 0243 0612	Red Star	0392
	0715 0615 0736 0857	Redpoint	0553
	0630	RFT	0564 0311 0243 0223

Roadstar	0736	Teledirekt	0206
Rover	0651 0736		0444 0733
Saba	0206 0543 0359 0637	Teleka	0266 0465 0636 0419
	0713 0757 0733 0715		0821 0773 0715 0524
0-1	0908 0630	T-1	0285 0630 0857
Sabre Sagem	0478 0843	Telemaster Telesat	0628 0630
Sakura	0389	Telestar	0524
Salora	0131	Teletech	0903
Samsung	0310 0444 0876	Televes	0478 0524
SAT	0374 0344 0484 0524	Telewire	0615 0387
	0385 0698	Tensai	0396 0355
Sat Partner	0355 0525 0444 0358	Thomson	0478 0637 0736 0315
	0543 0636 0757		0876 0630 0843 0733
Sat Team	0736	Thorens	0609
Satcom	0369 0628 0630	Thorn	0478
Satec	0206 0736	Tioko	0417 0266
Satelco Satford	0392 0369	Tokai Tonna	0223 0369 0478 0615 0387
Satline	0651	TOTITIA	0524 0736 0857
Satmaster		Toshiba	0478
Schäcke	0636	TPS	0843
Schneider	0690 0828 0921 0733	Trendline	0536
Schwaiger	0417 0206 0628 0527	Trendplain	0536
_	0612 0630 0908 0715	Triad	0374 0358 0344 0356
Sedea		Triasat	0437 0524
Electronique		Triax	0437 0524 0223 0419
Seemann	0419 0266 0553 0538		0736 0876
SEG	0444 0392 0355 0628	Tristar	0396
0-1	0765	Uniden	0854 0698
Seleco Servi Sat	0615 0387 0894 0615	Unisat Unitor	0389 0266 0223 0240 0355
Siemens	0196 0706		0196 0594 0420 0630
Silva	0358	Oniversam	0698 0484 0765
Skantin	0736	Variosat	0196
Skardin	0553	Vector	0356
Skinsat	0524	Ventana	0223
SKR	0736	Vestel	0765
Sky	0870	Videocrypt	
Skymaster	0311 0628 0651 0736	Viper	0389
01	0903	Visiosat	0374 0713 0736
Skymax SkySat	0223 0356 0628	Viva Vortec	0243 0310 0444
Skyvision	0387	VTech	0374 0344 0713 0841
SL	0715 0155 0765 0266	Wela	0612 0736 0817 0155
Smart	0155	Wetekom	0852 0628 0524
Sony	0870 0478 0876	Wewa	0356 0478
SR	0536	Wibo	0266
Starland	0736	Winersat	0355
Starring	0355	Wintergarte	
Strong	0444 0636 0392 0616	Wisi	0196 0344 0713 0419
OT //	0543 0396 0876		0612 0478 0374 0524
STVI Sumida	0667 0266	Woorisat	0857 0630 0543
Sunny	0200	World	0355
Sound	0392	Worldsat	0733
_	0736 0553	XCOM	0855
Sunstar	0536 0266 0392 0817	Xrypton	0392
	0155	XSat	0855 0736
Tagra	0387	Zaunkonig	0715
Tantec	0359 0478	Zehnder	0344 0354 0543 0527
Tatung	0478		0392 0841 0765 0417
	0369 0615 0387	7-1-	0240
TechniSat	0285 0524 0571 0564	Zeta	0000
Technowelt	0028 0223	Technolog Zodiac	yu223 0636
Teco	0396 0266 0536		0817 0266
Telasat	0628 0630	o.g.iase	3311 0200
Teleciel	0636 0757		
Telecom	0736		

Cable Converters

Alcatel 0919 0920 0299 Austar 0128 0739 RT

Cabletime 0294 0400 0471 0688

Canal Plus 0466 Comcrypt 0466 Filmnet 0466 France

Telecom 0474 0840 0919 0920

General

Instruments0299 0026 0299 .lerrold Kabelvision 0026 Macab 0840 MNet 0466 Mr Zapp 0840 NTL

Cabletell 0299

Optus വാരമ Philips 0474 0840

PVP Stereo

Visual 0026 0840 Sagem Scientific

0031 0300 Atlanta Tele+1 0466 0466 Telepiu กรกด Tudi United Cable 0026

Videotron 0273 Videoway 0273 Visiopass 0474 0840 Westminster0128 0739

CD / Mini Disc

Aiwa 0147 0385 Akai Alba 0638 Alto 0648 Arcam 0180 0648 Ariston

Audio Research 0180

Audiolab **0180** Audiomeca 0180 Audioton 0180 Bang & 0235 Olufsen RAT 0180

Bush 0638 Cairn 0180 California

Audio Lab 0052 Cambridge

Audio 0648 0180 Carver 0202 Craig 0638 Cyrus 0180 Denon 0026 0896 DKK 0023

Dvnamic

0202 Rass Eclipse 0648

0648 Fidelity Fisher 0202 Gemini 0648

Genexxa 0023 0060 0202 0055 Goldmund 0180

Goodmans 0648 0385 0638

Grundig 0180 GTX 0385

Harman/

Kardon 0196 0180 **HCM** 0648 0648 Hiro 0095 JVC

Kenwood 0060 0213 0051 0704

0180 Krell Lansay 0648

Linn 0180 Marantz **0180** Matsui 0180 MCS 0052 Melectronic 0385 Memorex 0055 Meridian 0180 Micromega 0180 Mission 0180 MTC 0648 NAD 0023

0180 NSM 0180 Panasonic 0052 0326 0390

0180 0297 0649

Philips

Naim

Pink Triangle 0648 0055 0267 Pioneer Proton 0180 QED 0180 Quad 0180

Radiotone 0638 0648 RCA 0202 Realistic 0202 Revox 0180 Rotel **0180** SAE 0180

Sansui 0180 0648 0202 Sanyo Schneider 0638 Sharp വാടവ

Siemens 0180 0023 0420 0513

SuperTech 0648 0648 Synergy 0055 Tandv Teac 0648

Technics 0052 0230 0326

Thorens 0180 Thule 0180 Universum 0180 0385 Victor 0095 0638 Watson Wharfedale 0385 0059 0210 Yamaha Zenith 0638

Miscellaneous Audio

0033 0182 0427 Aiwa Harman/

Kardon 0500 JBL 0500 JVC 0096 Sanvo 0894 Sony 0182 0033

Amplifiers

Aiwa 0429 BAT 0292 Bush 0292 0444 Denon 0183 0295 Goldmund 0292 Goodmans 0444 Grundig 0292 0870 0292 I inn Marantz 0292 1026 0292 Mark Meridian 0292 Micromega 0292 Myryad 0292 Naim 0292 Panasonic 0331 Philips 0292 Pioneer 0036 0292 Quad 0292 Roadstar 0870 0444 Teac Technics 0331 Telefunken 0870 0292 Thorens Universum 0292 Yamaha 0166 0377

Amp/Tuners

Aiwa 0144 0428 0181 Akai 0369 0138 0463 0632 0304 0632 Anam 0665 0212 Arcam

Bang &

Audio

Olufsen 0822 Brandt 0847 Cambridge

Carver 0065 0383 Clatronic 0767 Denon 0027 0296 Elta 0767 Fisher 0065 0383

0212

0304 0309 0463 0767 Garrard Genexxa 0209 0463

Goldmund 0212 0304 GoldStar

Goodmans 0632 0767 0463 Grundig 0212 0309 0304 0242 0767

Harman/

Kardon 0133 0212 0231 Harwood 0767 Inkel 0050 0514 Intersound 0767 JBL 0133

JVC 0097 0487 0050 0336 0337 0209 Kenwood

0262 Koss 0767

LG 0304 Linn 0212 I XI 0767

Marantz 0212 0435 0242 0767

Matsui MCS 0062 0369 Memorex 0037 Micromega 0212 Mitsubishi 0463 ΝΔΩ 0343 Nikkei NTDE 0767

Okano 0463 0158 Onkyo Orient

> 0767 Power

Panasonic 0332 0541 0786 0062 Philips 0212 0435 0665 Pioneer 0037 0103 0312 0209

Quasar 0062 RadioShack 0767 **RCA** 0.369 Revox 0212 0209 Roadstar 0369 Saba 0847 0369 Saisho Samsung 0309

0212 0632 0369 Sansui Sanyo 0383 0242 0065 Schneider 0133 0767

Sharp 0209 Sherwood 0514 Siemens 0632 0304 Sonic Sony 0181 0438

Soundwave 0632 TaeKwang 0463 Teac 0632 0133

0332 0541 0786 0231 Technics 0062

Techwood 0304 Telefunken 0847 Thomson 0847

Thorens 0212 Thorn 0767 Uher 0369

Universum 0304 0632 0767 0309

0463 0212

0097 Wharfedale 0463 0632 Yamaha 0199 0209 Zenith 0304 0767

Cassette Players

Aiwa 0220 Akai 0211 Arcam 0099 Denon 0099 Grundig 0052 Harman/

0205 0052 Kardon Inkel 0093 JVC 0333 0296

0093

Kenwood Magnavox 0052 0052 Marantz Memorex 0122

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